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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/008,748	12/06/2001 Craig A. Paulsen		406590	6019
7.	590 05/29/2003			
George H. Gerstman SEYFARTH SHAW 55 East Monroe Street		ENATSKY, AARON L		
			3713	
			DATE MAILED: 05/29/2003	
				a

Please find below and/or attached an Office communication concerning this application or proceeding.

EC

Office Action Summary

Application No.	Applicant(s)
10/008,748	PAULSEN ET AL.
Examiner	Art Unit
Aaron L Enatsky	3713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

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- Anyı	re to reply within the set or extended period for repreply received by the Office later than three monthed patent term adjustment. See 37 CFR 1.704(b).					
Status						
1)⊠	Responsive to communication(s) filed on <u>17 March 2003</u> .					
2a)⊠	This action is FINAL.	2b)□	This action is	non-fi	nal.	
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) 🖾	4)⊠ Claim(s) <u>1-46</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-46 is/are rejected.					
7)	7) Claim(s) is/are objected to.					
8)	8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
9) 🗌 🤈	The specification is objected to by t	he Exan	niner.			
10) 🔲 .	The drawing(s) filed on is/are	e: a)□ a	ccepted or b)	object	ed to by the Examiner.	
	Applicant may not request that any o	bjection t	o the drawing(s)	be hel	d in abeyance. See 37 CFR 1.85(a).	
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) 🔲	The oath or declaration is objected	to by the	Examiner.			
Priority u	ınder 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachmen						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review nation Disclosure Statement(s) (PTO-1449)	(PTO-948) Paper No(s) <u>7.8</u> .	4)	Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Other:	

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DETAILED ACTION

Response to Amendment

Examiner acknowledges receipt of amendment on 3/17/03. The arguments set forth in the response are addressed herein below. Rejections based upon this prior art are contained herein below.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-24, 31-33, 34-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 5,605,506 to Hoorn et al. (Hoorn) and further in view of US Patent No. 6,265,984 to Molinaroli (Mol). Hoorn teaches a gaming machine (4:48-49), a user input mechanism (4:49-50), an external visual indicator providing illumination in multiple colors (5:1-13), the colors are illuminated in a controlled fashion as a result of different events (5:1-13) such as jack-pots (Abstract) and requirements for service (5:8-12), the external visual indicator is a cylindrically shaped electronic candle (Fig. 3), the customized illumination pattern is a two-stage candle with different light sources (5:41-43). A processor controlling game input and illumination output is inherent with gaming machines and is supported through the disclosure of the gaming machine maybe any variety of computer (3:60-63). Hoorn does not teach using LEDs or illumination patterns using the LEDs. Mol teaches the limitations of cylindrical display (3:1-3, Fig. 19) containing a plurality of light emitting diodes to create recognizable text and images to be

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viewable by an individual (15:35-16:67), using multiple multicolor LEDs in the light display to provide a more colorful display (4:14-15), the multicolor LEDs can be used to produce many different colors (7:46-50), cycling the lights in a controlled manner to produce graphics or messages (1:67-2:4), using a processor for controlling the LED display to provide the ability to pulse the LEDs (4:38-39), an I/O interface is connected to the processor (4:38-39), and a storage system connected to the processor for storing user programmable patterns (4:60-61). Mol does not teach the LED display mounted to a gaming machine, but as readily apparent from the design that the LED display could be mounted or placed on any surface. Additionally, the LED display is versatile for producing images and adapted for a large variety of embodiments (Figs. 1-27). One would be motivated to modify Hoorn to include the LED display device taught by Mol as Hoorn includes a similar feature using a mounted illumination display on a game machine to provide alerts and game events. Substituting the incandescent lights taught by Hoorn's current display would add a versatile, inexpensive light display for producing illumination effects (Mol 1:47-50) reducing overall costs by eliminating the current expensive incandescent light source and replacing it with power saving LEDs. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hoorn to replace the current illumination display for an inexpensive LED light display. Further device interoperability and user control is supported through the communication interfaces provided by Hoorn and Mol. Hoorn teaches that a communication link and interface is already present to connect to the current candle from the gaming machine (Hoorn, Fig. 2) and the above discussed existing user input panel. Mol provides for any type of well-known computer interfaces (7:65-8:6) to connect to a stand-alone processor/board configuration so that a user can program new LED illumination

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combinations. This the combination of Hoorn in view of Mol provides for a main processor in the gaming machine, which would communicate with a secondary processor located in a remote board. One would be further motivated to add the user programmable display features taught by Mol so that they can customize a display message using the existing user input panel, alerting other game participants of different favorable game events rather than the standard illumination feature. Mol provides similar motivation through the disclosure of providing messages of interest/amusement to passers by (9:44-45). Thus, the customization would add greater user satisfaction through increased user game interaction.

As Hoorn in view of Mol uses LED for illumination, it would be obvious to one of ordinary skill to include a DC power supply as LED need to powered by DC power.

In regard to pulse width modulators and board configurations, Hoorn in view of Mol teaches the claimed limitations as disclosed above, but does not specifically teach a pulse width modulator (PWM) to control LED illumination. However, Mol teaches a preferred embodiment using a microprocessor to control the LED illumination as discussed earlier (4:19-20) that has a built in oscillator (4:21-22) that drives the LED bursts. One would be motivated to use a PWM as it is notoriously well known in the art to use a PWM as an oscillator to regulate a controlled, consistent output signal, as required of an oscillator. In regard to processor and board configurations, the specific design choice of two separate processor on two separate boards or a feature combination of both processors in a single processor is considered well with the capability of one of ordinary skill in the art.

In regard to the ability to produce various colors, Hoorn in view of Mol disclose the ability to produce various different colors, but lacks specific teachings of the exact colors.

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However, the ability to produce various different colors would encompass Applicant's required colors.

In regard to the candles with multiple different stages of LEDs, Hoorn provides a candle with two stages, with each illumination stage providing a different meaning for different events (5:40-6:24). Hoorn does not teach additional combinations of a third and fourth stage, but it is considered well within the capabilities of one of ordinary skill to duplication elements and their existing functions, thus obvious to add additional stages if more visual events alerts are needed, or to further provide greater combination of player definable illumination.

In regard to the various embodiments for displaying the illumination, Mol teaches an embodiment using a light reflector to focus the LED display (20:4-5). While Hoorn in view of Mol does not teach the specific embodiments of a conical parabolic reflector, translucent rods, and translucent discs for distributing the illumination, but lacking criticality the illumination displays can be formed in a variety of displays as can been seen from Mol (Fig. 1-27). The different embodiments are commensurate with providing different levels of light diffusion for different situations. The various embodiments are considered well within the capabilities of one of ordinary skill to produce depending on the level of luminance needed.

Response to Arguments

Applicant's arguments filed 03/17/03 have been fully considered but they are not persuasive. Applicant's first argument is regarding Examiner's 102(b) rejection by Hoorn.

Applicant has amended claims to include features that were not previously required. As such, the rejection has been modified and the arguments regarding the 102(b) rejection are moot.

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Applicant's second argument is in regards to the combination of Hoorn in view of Molinaroli. In response to applicant's argument that Molinaroli is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Applicant argues that since Molinaroli is not disclosed as useable in a game machine, the features of Molinaroli are not applicable to Hoorn and Applicant's invention. Examiner contends that Molinaroli is very much aligned with Applicant's intended purpose, which is to provide a user customizable display.

Applicant's third and fourth arguments concern a user customizable display and the electronics used to perform the LED display. As stated in the above rejection, Molinaroli provides that a user can customize an LED display, which would require some input mechanism so that a user can customize the display configuration. In the same vein Applicant argues that Molinaroli lacks the particulars of the LED controller. More specifically, a signal processor connected to a pulse width modulator connected to a current driver. Molinaroli has a signal processor and an oscillator to drive the LED display (4:19-21). Additionally, as noted in the above rejection it is notoriously well known to use a PWM, as a PWM is a specific form of an oscillator. One of ordinary skill would recognize that the oscillator and PWM are interchangeable where the signal processor could have easily duplicated the features of the PWM.

Applicant's final arguments are regarding the specifics of the embodiments of a conical parabolic reflector, translucent rods, and translucent discs for distributing the illumination. As

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noted in the above rejection, Examiner argued that the various types lack criticality to the invention. Molinaroli provided a plurality of examples of how to form and distribute illumination displays and Applicant has also shown that the invention could be used in a plurality of configurations without affecting the functionality of the invention. Therefore Examiner continues to hold that the various embodiments would have been obvious to implement to one of ordinary skill.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron L Enatsky whose telephone number is 703-305-3525. The examiner can normally be reached on 8:00 - 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael O'Neill, Acting S.P.E. can be reached on 703-308-1148. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Aaron Enatsky May 23, 2003 MICHAEL O'NEILL PRIMARY EXAMINER